



501.43788X00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Hirotaka NAKAGAWA et al.

Serial No.: 10/828,286

Filed: April 21, 2004

For: METHOD, DEVICE AND PROGRAM FOR MANAGING  
VOLUME

Group: 2186

Examiner: Not yet assigned

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97 & 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

May 16, 2005

Sir:

In the matter of the above-identified application, Applicants are  
submitting herewith copies of the documents listed in the attached form  
equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted before the  
mailing date of a first office action on the merits.

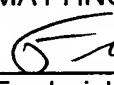
Each of the documents listed on the attached form equivalent to Form  
PTO-1449 is in the English language.

It is respectfully requested that this information disclosure statement be  
considered by the Examiner.

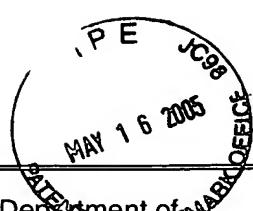
Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Mattingly, Stanger & Malur, Deposit Account No. 50-1417 (referencing attorney docket no. 501.43788X00) please credit any excess fees to such deposit account.

Respectfully submitted,

MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

  
\_\_\_\_\_  
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SHEET 1 OF 1

**FORM PTO-1449** U.S. Department of  
Commerce (Rev. 4/92) Patent and Trademark  
Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

501.43788X00

SERIAL NO.

10/828,286

APPLICANT

Hirotaka NAKAGAWA et al.

FILING DATE

April 21, 2004

GROUP

2186

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,310,883	1-1982	CLIFTON et al.			
	5,345,584	9-1994	HILL			
	6,389,432	5-2002	POTHAPRAGADA et al.			
	6,598,174	7-2003	PARKS et al.			
	6,766,430	7-2004	ARAKAWA et al.			
	6,836,832	12-2004	KLINKNER			
	2004/0024796 A1	2-2004	TAKEDA et al.			
	2004/0123180 A1	6-2004	SOEJIMA et al.			
	2004/0181641 A1	9-2004	NGUYEN et al.			
	2004/0268069 A1	12-2004	SATOYAMA et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
						YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])